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QUESTION 1

Refer to the exhibits.

Exhibit 1.

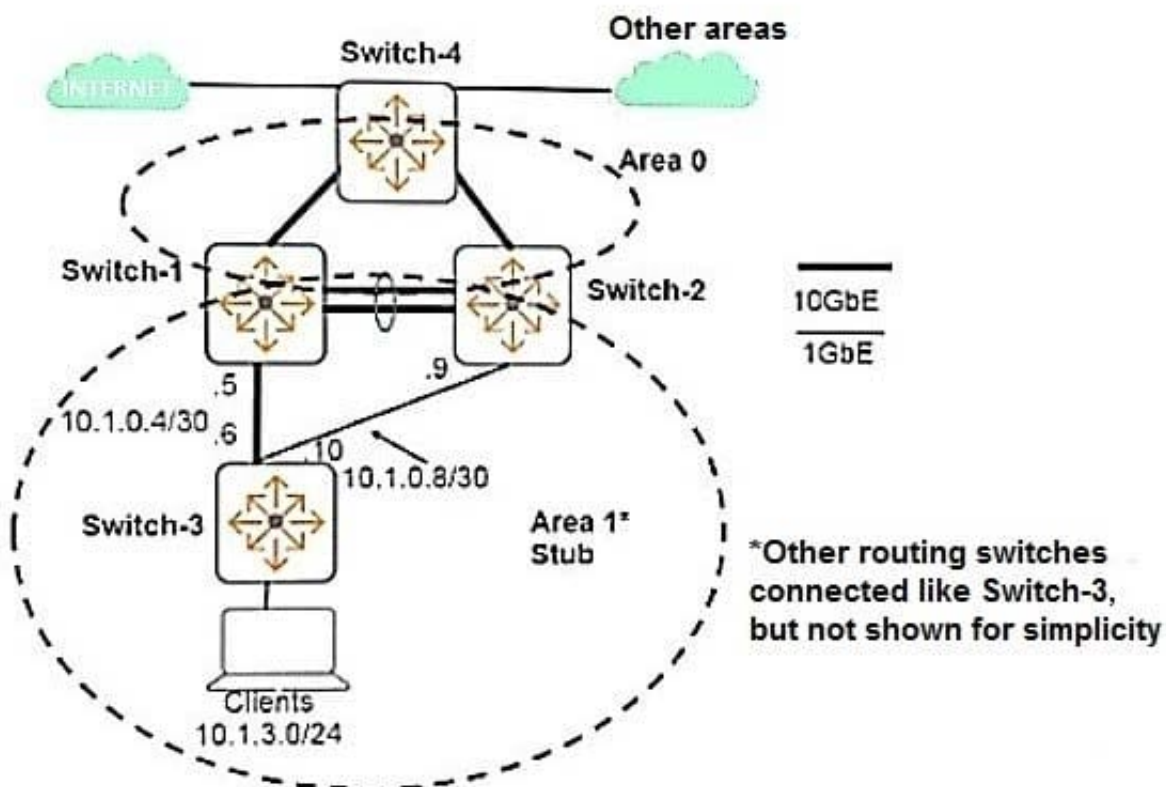


Exhibit 2.



```
Switch-3(config)# show ip route
```

```
IP Route Entries
```

Destination	Gateway	VLAN	Type	Sub-Type	Metric	Dist.
0.0.0.0/0	10.1.0.5	104	ospf	InterArea	2	110
0.0.0.0/0	10.1.0.9	108	ospf	InterArea	2	110
10.1.0.4/30	ToSwitch-1	104	connected		1	0
10.1.0.8/30	ToSwitch-2	108	connected		1	0
10.1.3.0/24	Clients	130	connected		1	0
10.1.4.0/24	10.1.0.5	104	ospf	IntraArea	3	110
10.1.4.0/24	10.1.0.9	108	ospf	IntraArea	3	110
10.2.0.0/16	10.1.0.5	104	ospf	InterArea	2	110
10.2.0.0/16	10.1.0.9	108	ospf	InterArea	2	110
127.0.0.0/8	reject		static		0	0
127.0.0.1/32	lo0		connected		1	0

The exhibits show the current operational state for routes on Switch-3. The company wants Switch-3 to prefer the link to Switch-1 over the link to Switch-2 for all intra-area, inter-area, and external traffic.

What can the network administrator do to achieve this goal?

- A. Set the OSPF cost on VLAN 108 higher than 1 on Switch-2 and Switch-3.
- B. Set the OSPF administrative distance on Switch-2 higher than 110.
- C. Set the OSPF area type to normal on all of the switches in Area 1.
- D. Set the cost in the OSPF Area 1 stub command higher than 1 on Switch-2.

Correct Answer: D

QUESTION 2

What is one difference between BPDU protection and root guard?

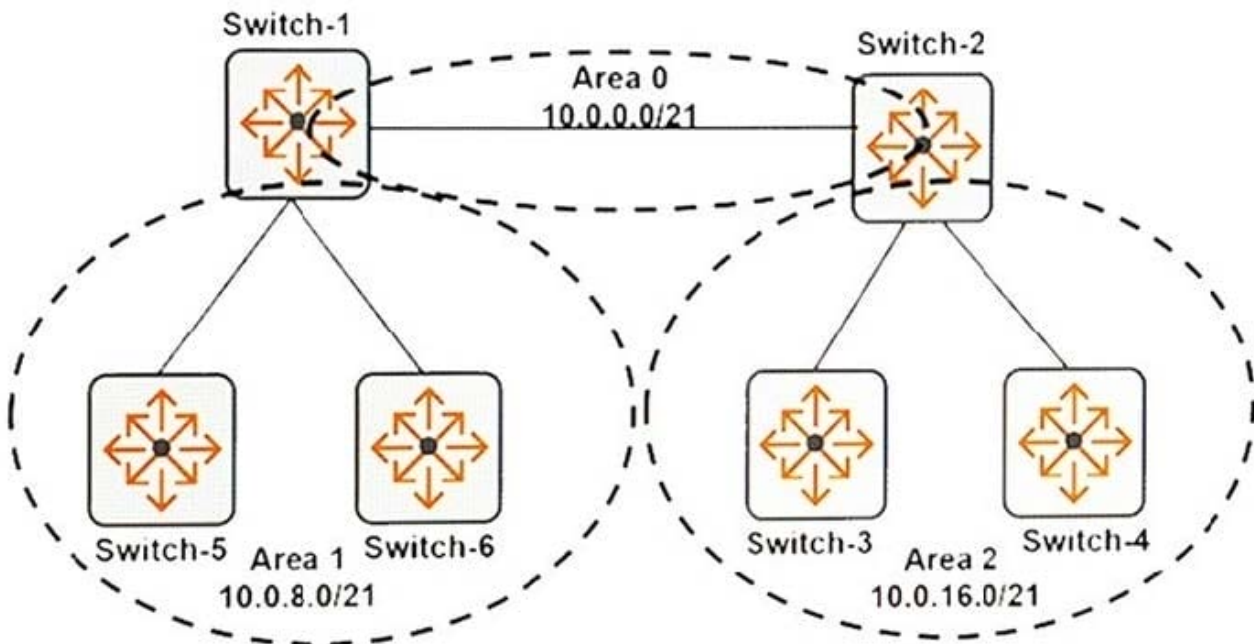
- A. BPDU protection works with RPVST+, RSTP, and MSTP. Root guard works with RSTP or MSTP, but not RPVST+.
- B. BPDU protection blocks a port if it receives any BPDU, but root guard blocks a port only if the BPDU indicates a better root path.
- C. BPDU protection is typically implemented on edge ports, but root guard is typically implemented on uplinks with the root port role.
- D. BPDU protection drops BPDUs received on a port, but does not block the port. Root guard blocks the port if it receives a BPDU.

Correct Answer: B

Reference: <http://ericleahy.com/index.php/bpdu-guard-bpdu-filter-root-guard-loop-guard-udld/>

**QUESTION 3**

Refer to the exhibit.



The network administrator wants to summarize routes as much as possible in between areas. What is the correct range to specify for the router OSPF Area 2 command on Switch-2?

- A. 10.0.0.0/20
- B. 10.0.0.0/21
- C. 10.0.8.0/21
- D. 10.0.16.0/21

Correct Answer: D

QUESTION 4

Refer to the exhibit.



```
Switch-1# show linl-keepalive
```

```
Status and configuration - UniDirectional Link Detection (UDLD)
```

```
Keepalive Retries    : 4
Keepalive Interval   : 5000 ms
Keepalive Mode       : forward-then-verify
```

Port	Enabled	Physical Status	Keepalive Status	Adjacent Switch	UDLD VLAN
A23	Yes	up	failure	00fd45-653ae9	untagged

Switch-1 and Switch-2 connect on interface A23. The switches experience a connectivity issue. The network administrator sees that both switches show this interface as up. The administrator sees the output shows in the exhibit on Switch-1.

What is a typical issue that could cause this output?

- A. a hardware issue, such as a broken cable
- B. asymmetric routing introduced by a routing configuration error
- C. an issue with queuing, caused by mismatched QoS settings
- D. mismatched IP addresses on the VLAN for the link

Correct Answer: A

QUESTION 5

Refer to the exhibits. Exhibit 1

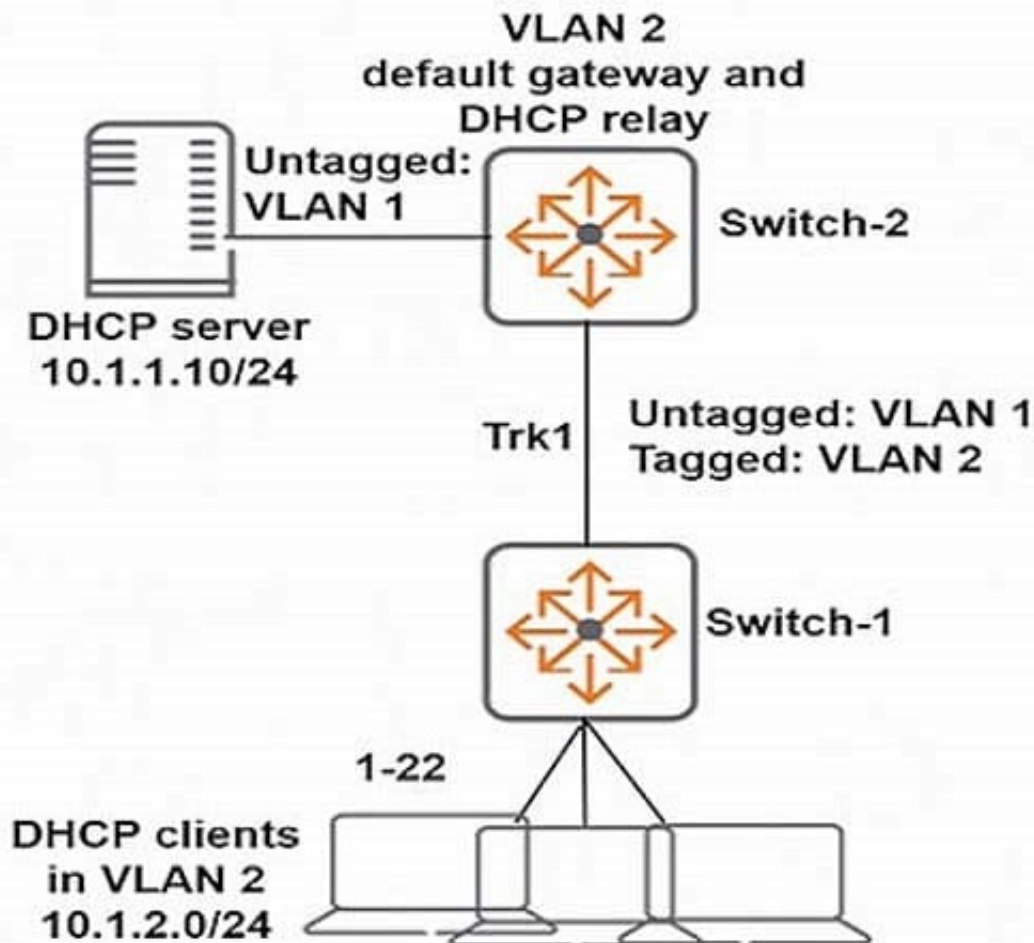


Exhibit 2 Which change to the environment would cause clients to fail to receive DHCP settings?

```
DHCP Snooping : Yes
Enabled VLANs : 2
Verify MAC address : Yes
Option 82 untrusted policy : drop
Option 82 insertion : Yes
Option 82 remote-id : mac
Store lease database : Not configured
```

Authorized Servers

10.1.1.10

Port	Trust	Max Bindings	Current Static	Bindings Dynamic
Trk1	Yes	-	-	-

Ports 1-22 are untrusted



- A. the addition of a new link to the link aggregation between Switch-1 and Switch-2
- B. the addition of a new VLAN on the link aggregation between Switch-1 and Switch-2
- C. a change in the Switch-1 option 82 policy to replace
- D. a change of IP address on the network DHCP server

Correct Answer: C

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